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norm VIII

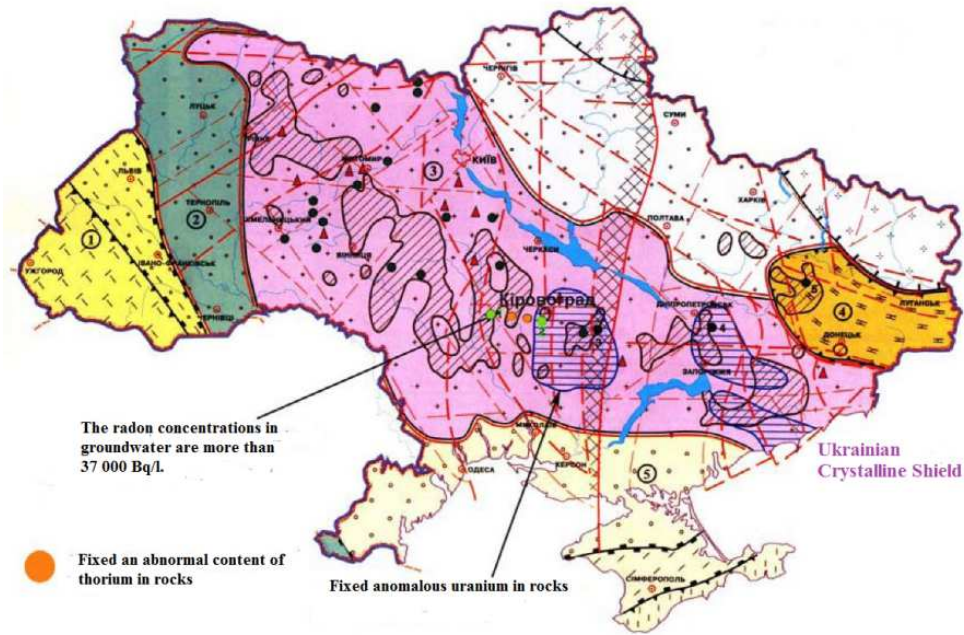
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NORM WASTE IN SOME MINING AND PROCESSING INDUSTRIES OF UKRAINE

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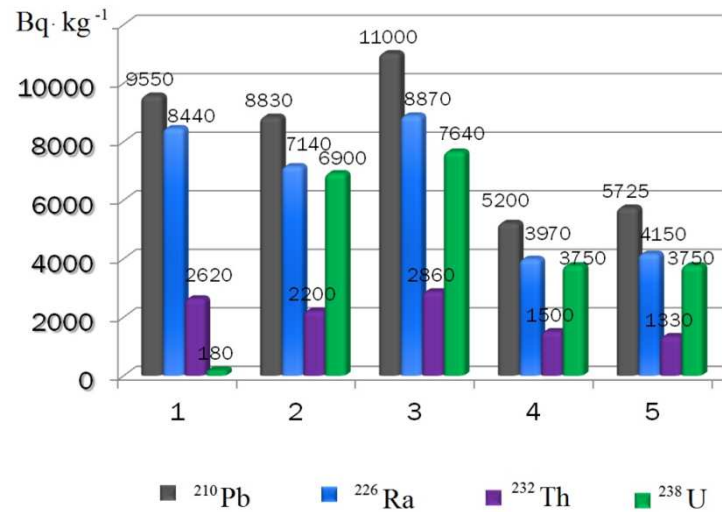


In February 2015 the Cabinet of Ministers of Ukraine approved the implementation plan of the Council Directive 2013/59/Euratom.

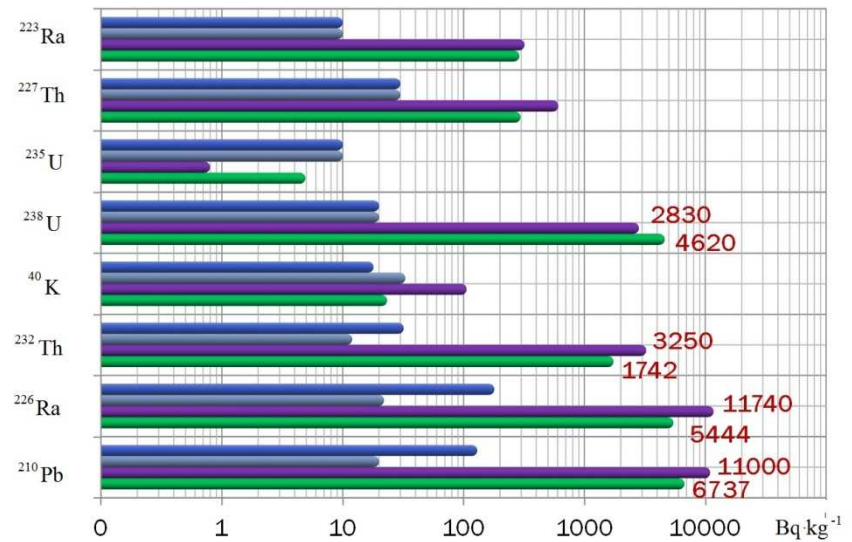
Regulation of industrial waste containing NORM is one of the requirements in the Directive to be introduced in Ukraine.

Industries with the potential NORM content in their waste were approached in this research. 32 enterprises were the subject for investigation.

Average NORM activity concentration in the waste of oil extraction industry



Average NORM activity concentration in the waste of oil processing industry



Conclusions

1. Monitoring of the NORM levels in wastes has identified the need to establish regulatory control and oversight of the oil industry in the country. The NORM level in pipe sediments and silts of oil exceed the established exemption levels and range as follows: ^{210}Pb 3 – 11 kBq/kg, ^{226}Ra 2.9 – 8.4 kBq/kg, ^{232}Th 0.8 – 2.8 kBq/kg, ^{238}U 0.18 – 6.9 kBq/kg.

2. For the regulatory control purposes a package of regulatory documents must be developed.

3. Further investigation and analysis of the NORM concentration in oil extraction and processing industry would be needed.